

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: September 4, 2002, 16:08:57 : Search time 165.17 Seconds  
(without alignments)  
316.066 Million cell updates/sec

Title: US-09-052-089a-2  
Perfect score: 2393  
Sequence: 1 MPILSLCTICSDFFDHSRDV.....VRIKTVSSASQPKLDTFLCQ 470

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

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1: /SID55/gcgdata/geneseq/genesqp-emb1/AA1980.DAT:\*  
2: /SID55/gcgdata/geneseq/genesqp-emb1/AA1981.DAT:\*  
3: /SID55/gcgdata/geneseq/genesqp-emb1/AA1982.DAT:\*  
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21: /SID55/gcgdata/geneseq/genesqp-emb1/AA2000.DAT:\*  
22: /SID55/gcgdata/geneseq/genesqp-emb1/AA2001.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1826.5	76.3	469	20	AAV30149
2	1819.5	76.0	469	19	AAW37881
3	281.5	11.8	455	22	ABR61289
4	195.5	8.2	1690	22	ABR61144
5	195.5	8.2	1690	22	ABR61173
6	192.5	8.0	1325	18	AAW19540
7	192.5	8.0	1325	20	AAW94391
8	190	7.9	2056	22	ABR59344
9	188.5	7.9	574	22	AA95497
10	179.5	7.5	1968	22	AAW40999
11	179.5	7.5	1968	22	AAW41000

12	178	7.4	482	22	ABR71396	Drosophila melanog
13	177	7.4	1951	22	ABG01723	Novel human diago
14	177	7.4	1960	22	AAW78854	Human protein SFO
15	177	7.4	2143	22	ABG01716	Novel human diago
16	176.5	7.4	1975	22	ABR62094	Drosophila melanog
17	175.5	7.3	1017	22	AAE02246	Domestic mite Btl1
18	175	7.3	1177	22	AAE02245	Domestic mite Btl1
19	174.5	7.3	875	22	AAE02245	Domestic mite Btl1
20	174.5	7.3	878	22	AAE02242	Domestic mite Btl1
21	174	7.3	1374	22	ABR69070	Human male enhance
22	174	7.3	1489	22	ABR59948	Drosophila melanog
23	173.5	7.3	1203	22	AAW79264	Human protein SEQ
24	172.5	7.2	864	22	AAW40292	Human polypeptide
25	172.5	7.2	2482	16	AAW72826	Human mitotin. Ho
26	172.5	7.2	2482	19	AAW23996	Human mitotin. Ho
27	172.5	7.2	3248	17	AAW99795	Human mitotin. Ho
28	172	7.2	717	21	ABR21231	kinetochore protei
29	171.5	7.2	1456	22	ABR58673	Tomato LcEPFL. Ly
30	170.5	7.1	866	21	AAW86194	Drosophila melanog
31	170.5	7.1	1752	20	AAW07031	Nuclear transport
32	170.5	7.1	1948	22	ABG21233	Breast cancer asso
33	170.5	7.1	1963	22	AAW79838	Novel human diago
34	170.5	7.1	2918	22	ABG27218	Human protein SEQ
35	170	7.1	1093	14	AAW42818	Novel human diago
36	170	7.1	2017	22	ABG06301	TMF. Homo sapiens
37	169.5	7.1	561	19	AAW63043	Novel human diago
38	169	7.1	1090	21	AAW59270	Streptococcus uber
39	168.5	7.0	550	22	AAU31067	Human huntingtin-i
40	168.5	7.0	576	16	AAW65929	Novel human secret
41	168.5	7.0	731	22	AAW48573	AMUL. Chromosome
42	168.5	7.0	816	16	AAW65931	Human breast cance
43	168.5	7.0	885	16	AAW65930	AMUL. Chromosome
44	168.5	7.0	2400	22	ABG20278	Novel human diago
45	168.5	7.0	2415	22	ABG20279	Novel human diago

ALIGNMENTS

RESULT 1	AAV30149	AAV30149 standard; Protein; 469 AA.
ID	AAV30149	
AC	AAV30149;	
XX	27-OCT-1999	(first entry)
DE	AAV30149	Amino acid sequence of a BRCA1 modulator protein.
XX	Modulator protein; BRCA1; tumour suppressor protein; breast cancer;	
KW	ovarian cancer; cell growth; cell proliferation.	
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Region	3...32
FT	Region	/note="zinc finger motif"
FT	Region	230..255
FT	Region	/note="leucine zipper motif"
XX		
PN	US5948643-A.	
XX		
PD	07-SEP-1999.	
XX		
PF	13-AUG-1997;	97US-0968751.
XX		
PR	13-AUG-1997;	97US-0968751.
XX		
PA	(ONYX-) ONYX PHARM INC.	
XX		
PI	Lingenfelter C, Polakis PG, Rubinfeld B, Vuong TT;	
XX		
DR	WPI; 1999-517952/43.	

DR N-PSDB; AAX86754.  
 XX Modulator proteins that bind to and modulate the activity of the  
 PT BRCA1 tumour suppressor gene product, useful for the treatment of  
 PT ovarian and breast cancer  
 XX  
 XX Example 1; Fig 1; 35pp; English.

XX The present sequence represents a modulator protein, that binds to and  
 CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1  
 CC protein has been characterized as a tumour suppressor protein.  
 CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian  
 CC cancers by removing the controls on cell growth and proliferation.  
 CC Research has shown that different regions on the BRCA1 molecule have  
 CC different effects on cell growth and tumour suppression (e.g. full length  
 CC truncated BRCA1 has no effect on breast cancer cell growth but will  
 CC inhibit ovarian cancer cell growth). It has been suggested that different  
 CC host cell factors (e.g. proteins) interact with different regions of the  
 CC BRCA1 to control its function. The identification of these proteins  
 CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic  
 CC methods and new therapeutics for identifying and treating cancers caused  
 CC by changes in the expression or activity of BRCA1.

XX Sequence 469 AA;

Query Match 76.3%; Score 1826.5; DB 20; Length 469;  
 Best Local Similarity 77.6%; Pred. No. 1,4e-147;  
 Matches 363; Conservative 41; Mismatches 63; Indels 1; Gaps 1;

QY 1 MPILSLCTICSDPFDRSDVAIAHCGHTFHLQCLIQMFETAPSRTPCQCRIOVGKRTIIN 60  
 DB 1 mpiralcticsdfdhardvaahcnghtfhqcliqwefetapstpcqcrivgkrtlin 60  
 QY 61 KLFFDLAEEENVDAAFLKNELDVKAQLSQKREKRDQAIIIDTLRDLTEENATVES 120  
 DB 61 klffdlageeenvdaeflkneldnvkaqlsqkrekrdqaiiiddtlrdlteenatvsv 120  
 QY 121 LQNALNKAEMLCSTLKKOMKFLQRODETQARREAHRLKCKMKTMEQIELLSQSEV 180  
 DB 121 lqnalnkaemlcstlkkomykflqrodetkqageaarlriskmktmeqieillsqsqrev 180  
 QY 181 EEMTRDMGVGOSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKDLVSSRSKLTLN 240  
 DB 181 eemtrdmvgosaveqlavycvslkkeyenlkearkatgeladrlkdlvssrskltlv 240  
 QY 241 TELDQAKLELRSAQKLDQSDQETTSLRKSDDPGKLEPASPATNETVSRVLESAPAVE 300  
 DB 241 teldaqaklelksaqkldqsadqettslrksddpgknlspaspatnetvsvrlvlesapave 300  
 QY 301 MMNPLRHQPPFGDEIDNTFEDVNTPTOTSGSQHCLPKKLCLEARRSPMONVLKVKHY 360  
 DB 301 -vnlktrrpsfriddinatfdvdparrpsqngyerkclekshpslqdpvklckg 359  
 QY 361 SKPEPSLISLGQRCVGLDELGAFLFIRNAVLGQKOPKRTTAESRSSTDVRIIGEDG 420  
 DB 360 pkesqslislgscagepdeelvgaflfvrnalilgqkqprpsesscsdvrvitfgdg 419  
 QY 421 LGGTRKTIOPRDTIIRPVYKSKAKSKOKVRRITVSSASQPKDITL 468  
 DB 421 lggtrktioprdtiirpvpykkskaksokvrritvssasopkuditl 467

RESULT 2

AAW37881  
 XX AAW37881 standard; Protein: 469 AA.

AC AAW37881;  
 XX  
 DT 28-AUG-1998 (first entry)  
 XX  
 DE BRCA1 modulator protein 091-21A31.  
 XX

KW BRCA1 modulator protein: 091-21A31; breast cancer antigen 1;  
 XX tumour suppressor protein; diagnosis; therapy; human.  
 XX  
 OS Homo sapiens.  
 XX

XX Key Location/Qualifiers  
 XX FT Domain 3..54 /note="zinc finger motif"  
 FT Domain 229..255 /note="leucine zipper motif"

XX MO9810066-A1.

XX 12-MAR-1998.

XX 06-AUG-1997; 97WO-US13944.

XX 04-SEP-1996; 96US-0025601.

XX (ONYX-) ONYX PHARM INC.

XX Ligenfelter C, Polakis P, Rubinfeld B, Vuong TT;

XX WPI; 1998-193616/17.

XX N-PSDB; AAV29062.

PT Breast cancer antigen 1 modulator protein - useful for diagnosing  
 PT diseases involving unwanted cell growth, e.g. breast cancer, and for  
 PT producing therapeutics for treatment of such diseases

XX Example 1; Fig 1; 73pp; English.

CC This polypeptide comprises a 53 kDa BRCA1 modulator protein that  
 CC binds to the tumour suppressor gene product BRCA1, and which is  
 CC characterised by a zinc finger domain and a leucine zipper motif.  
 CC Its amino acid sequence was deduced from the nucleotide sequence  
 CC of a cDNA clone (see AAV29062), designated 091-21A31 (ATCC 98141),  
 CC isolated from a HeLa cell cDNA library using a yeast two-hybrid  
 CC assay. 3 cDNA clones (see also AAV29063-64) coding for BRCA1  
 CC modulator proteins (see AAW37881-83) have been characterised. Vectors  
 CC and host cells comprising the isolated nucleic acid sequences are  
 CC claimed, as well as a process for producing BRCA1 modulator protein  
 CC by culturing these host cells. BRCA1 modulator proteins and nucleic  
 CC acids can be used to diagnose diseases involving unwanted cell  
 CC growth, e.g. breast cancer, and to identify compounds that alter  
 CC BRCA1 interaction with BRCA1 modulators for the treatment of such  
 CC diseases.

SQ Sequence 469 AA;

Query Match 76.0%; Score 1819.5; DB 19; Length 469;  
 Best Local Similarity 77.4%; Pred. No. 5.6e-147;  
 Matches 362; Conservative 41; Mismatches 64; Indels 1; Gaps 1;

QY 1 MPILSLCTICSDPFDRSDVAIAHCGHTFHLQCLIQMFETAPSRTPCQCRIOVGKRTIIN 60  
 DB 1 mpiralcticsdfdhardvaahcnghtfhqcliqwefetapstpcqcrivgkrtlin 60  
 QY 61 KLFFDLAEEENVDAAFLKNELDVKAQLSQKREKRDQAIIIDTLRDLTEENATVES 120  
 DB 61 klffdlageeenvdaeflkneldnvkaqlsqkrekrdqaiiiddtlrdlteenatvsv 120  
 QY 121 LQNALNKAEMLCSTLKKOMKFLQRODETQARREAHRLKCKMKTMEQIELLSQSEV 180  
 DB 121 lqnalnkaemlcstlkkomykflqrodetkqageaarlriskmktmeqieillsqsqrev 180  
 QY 181 EEMTRDMGVGOSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKDLVSSRSKLTLN 240  
 DB 181 eemtrdmvgosaveqlavycvslkkeyenlkearkatgeladrlkdlvssrskltlv 240  
 QY 241 TELDQAKLELRSAQKLDQSDQETTSLRKSDDPGKLEPASPATNETVSRVLESAPAVE 300  
 DB 241 teldaqaklelksaqkldqsadqettslrksddpgknlspaspatnetvsvrlvlesapave 300

[illegible]

Db	6	cvtcellfggaddevatvctcgmmfhmnclnqwdlr--sktcbpcrnkctctnnif-rvtfnl	62
Qy	67	AOEEENVLDAEFLKNELDVSKAQLSQDKREKRDSQAIIIDTRDLTEERNATVESIQNALN	126
Db	63	anldvshidvsglqglndamlsmkwvekerndkedqitrdlketqcklktiajlegqvq	122
Qy	127	KAEMLCSTLKQMKFLBORODETKQAREBAHRLCKMKMTQEIQLLLOSQSRSEVEMIRD	186
Db	123	khdflissyveqigvlylksadahvvdgltrkenktlksqigsmegisaillaagsadadrllkn	182
Qy	187	MGVGSAAVEOLAVVCSLKKEVENLK----EARKATGELADLKKDVLVSSRSKLTPLN-	241
Db	183	----eaqhvlaanvstlkrrelrgceskkteltrnvkvavqndlrkylelkyahimipnv	238
Qy	242	-----ELDOAKLELERSA--OKDLOSADQETSLRKS--DDPGNLEPASATNETVSR	290
Db	239	flidmcstcdskleerthlesdlygaqekiafenkctayldsp-----nascglnsila	294
Qy	291	LVFE-----SPAPVEMNPRILHOPFGDEIDLNTTFEDVNPPTQTSQHCLPKK--LC	342
Db	295	lkreertltspvtvkenik-----rlseestspylnl-ksssvglahllncknig	343
Qy	343	LERAR-SPMQNVLNKKVHKVSKPESQSLSGCQCVCVELDELAGARPLFRNVLQKQPN	401
Db	344	laksstslpkvgvgvsmts-----gltrktsadlseksylf-----kxpr	384
Qy	402	RTTAASRSSTVDVVRIG---FDGLGRTFKTIPRPDRTTIIRPVPRVSKSAKSOKVRITVS	457
Db	385	lllgsssssalatcgsnfnyngmggsek-----vdptraqraeeegsltrstsal	435
Qy	458	S 458	
Db	436	s 436	
RESULT	4		
ABB61144			
ID	ABB61144	standard: Protein; 1690 AA.	
AC	ABB61144;		
XX	26-MAR-2002	(first entry)	
DT			
XX			
DE		Drosophila melanogaster polypeptide SEQ ID NO 10224.	
XX			
KW		Drosophila: developmental biology; cell signalling; insecticide; pharmaceutical.	
OS		Drosophila melanogaster.	
XX			
PN	WO2001/1042-A2.		
XX			
PD	27-SEP-2001.		
XX			
PF	23-MAR-2001; 2001WO-US09231.		
XX			
PR	23-MAR-2000; 2000US-191637P.		
XX	11-JUL-2000; 2000US-0614150.		
PA	(PEKE ) PE CORP NY.		
PI	Venter JC, Adams M, Li PWD, Myers EW;		
XX			
DR	WPI: 2001-656860/75.		
XX	N-PSDB; ABL05247.		
PT		New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -	
XX			
PS	Disclosure: SEQ ID NO 10224; 21pp + Sequence Listing; English.		
XX			
CC		The invention relates to an isolated nucleic acid detection reagent	

CC capable of detecting 1000 or more genes from Drosophila. The invention is  
CC useful in developmental biology and in elucidating cell signalling and  
CC cell-cell interactions in higher eukaryotes for the development of  
CC insecticides, therapeutics and pharmaceutical drugs. The invention  
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA  
CC sequences (ABB57737-ABB72072).  
CC (ABB57737-ABB72072).  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 1690 AA:

Query Match 8.2%; Score 195.5; DB 22; Length 1690;  
Best Local Similarity 22.7%; Pred. No. 2.5e-07;  
Matches 110; Conservative 74; Mismatches 163; Indels 137; Gaps 20;

QY 50 RIQVGKRTIINKLFFDLAQEEENVLDLAEFLKNE-----LDSVKAQLSQKDRKRDQAI 103  
DB 724 q1qlekesieqglal-----kqnele-dfqqkqseesevhlqelqagntqkdfelvesges 777  
QY 104 IDTLRDLTEERNATVESIQNALNKAEMLCSTLKQMK-FLEQRODETQOAREBAHRLCK 162  
DB 778 lkl1qgqlqegltlghkqlgaalee-----lkketclikeqelqqlqsksaesesa 830  
QY 163 MKTME-QIELLLQSORSEVEEMIRDMGVGQSAVEQLAYVC-----VSLKKEYNL-----KE 213  
DB 831 lkvvgvqlqeg1qgqaaasgeegsktvaklndelsqlksqaetqselkstqsnleakskq 890  
QY 214 ARKATGELADRLKKD--LVSSRSKLKTLNTELDQAKLELRSAOKDQADODEITSLRKKS 271  
DB 891 leangstleeaakskshllqegltklk---sevgelqaaalschtdvesktxq----- 939  
QY 272 DDPPGNLEPASATNETVSRVLFESPA-----PEVMNPRLLHQ----- 308  
DB 940 -----leanaaalekvkyaesraeasdlqdkvkeltldlhelgaersssahltkl 993  
QY 309 PPFGDEI-----DLNTTFDVNTPTQTSGSOHCLPKKLCLERRASPMQ----- 351  
DB 994 skfidelatqhkeltskad-----awsgemlqkekelqelqqlqdsqdsqtklae 1045  
QY 352 -----NVLKKVHKVSKPESQLSLGQRCVGELEDELAGAPFLFIRNAVIGOK 398  
DB 1046 gerkeksfeesiknlqeevtaktenlelstqgtcltkldigerle-----ltnaelqhk 1099  
QY 399 QPNRTTAESSSTDVVRIGFDGLGRTKFIQPRD-TTIIRVPVSKSAKSKQKVRIRKTVS 457  
DB 1100 -----ekmasedaqkia-----dlktlvea1qvanan1satnaelstvl 1138  
QY 458 SASQ 461  
DB 1139 evlq 1142

RESULT 5  
ABBB1173  
ID ABB61173 standard; Protein; 1690 AA.

XX ABB61173;  
AC  
DE 26-MAR-2002 (first entry)

XX Drosophila melanogaster polypeptide SEQ ID NO 10311.

XX Drosophila; developmental biology; cell signalling; insecticide;  
XX pharmaceutical.

XX Drosophila melanogaster.

XX WO200171042-A2.

XX 27-SEP-2001.

XX 23-MAR-2001; 2001WO-US09231.  
XX 23-MAR-2000; 2000US-191637P.  
XX 11-JUL-2000; 2000US-0614150.  
XX (PEKE ) PE CORP NY.  
XX Venter JC, Adams M, Li PWD, Myers EW.  
XX WPI; 2001-656860/75.  
XX N-PSDB; ABL05276.  
XX  
XX New isolated nucleic acid detection reagent for detecting 1000 or more  
XX genes from Drosophila and for elucidating cell signalling and cell-cell  
XX interactions -  
XX  
XX Disclosure; SEQ ID NO 10311; 21pp + Sequence Listing; English.

CC The invention relates to an isolated nucleic acid detection reagent  
CC capable of detecting 1000 or more genes from Drosophila. The invention is  
CC useful in developmental biology and in elucidating cell signalling and  
CC cell-cell interactions in higher eukaryotes for the development of  
CC insecticides, therapeutics and pharmaceutical drugs. The invention  
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA  
CC sequences (ABB57737-ABB72072).  
CC (ABB57737-ABB72072).  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 1690 AA:

Query Match 8.2%; Score 195.5; DB 22; Length 1690;  
Best Local Similarity 22.7%; Pred. No. 2.5e-07;  
Matches 110; Conservative 74; Mismatches 163; Indels 137; Gaps 20;

QY 50 RIQVGKRTIINKLFFDLAQEEENVLDLAEFLKNE-----LDSVKAQLSQKDRKRDQAI 103  
DB 724 q1qlekesieqglal-----kqnele-dfqqkqseesevhlqelqagntqkdfelvesges 777  
QY 104 IDTLRDLTEERNATVESIQNALNKAEMLCSTLKQMK-FLEQRODETQOAREBAHRLCK 162  
DB 778 lkl1qgqlqegltlghkqlgaalee-----lkketclikeqelqqlqsksaesesa 830  
QY 163 MKTME-QIELLLQSORSEVEEMIRDMGVGQSAVEQLAYVC-----VSLKKEYNL-----KE 213  
DB 831 lkvvgvqlqeg1qgqaaasgeegsktvaklndelsqlksqaetqselkstqsnleakskq 890  
QY 214 ARKATGELADRLKKD--LVSSRSKLKTLNTELDQAKLELRSAOKDQADODEITSLRKKS 271  
DB 891 leangstleeaakskshllqegltklk---sevgelqaaalschtdvesktxq----- 939  
QY 272 DDPPGNLEPASATNETVSRVLFESPA-----PEVMNPRLLHQ----- 308  
DB 940 -----leanaaalekvkyaesraeasdlqdkvkeltldlhelgaersssahltkl 993  
QY 309 PPFGDEI-----DLNTTFDVNTPTQTSGSOHCLPKKLCLERRASPMQ----- 351  
DB 994 skfidelatqhkeltskad-----awsgemlqkekelqelqqlqdsqdsqtklae 1045  
QY 352 -----NVLKKVHKVSKPESQLSLGQRCVGELEDELAGAPFLFIRNAVIGOK 398  
DB 1046 gerkeksfeesiknlqeevtaktenlelstqgtcltkldigerle-----ltnaelqhk 1099  
QY 399 QPNRTTAESSSTDVVRIGFDGLGRTKFIQPRD-TTIIRVPVSKSAKSKQKVRIRKTVS 457  
DB 1100 -----ekmasedaqkia-----dlktlvea1qvanan1satnaelstvl 1138  
QY 458 SASQ 461  
DB 1139 evlq 1142

```

RESULT 6
AAW19540
ID AAW19540 standard; Protein; 1325 AA.
XX
AC AAW19540;
XX
DT 16-SEP-1997 (first entry)
XX
DE Male-enhanced antigen-2.
XX
KW Mouse; MEA-2; detecting mutation.
XX
OS Mus musculus domesticus.
XX
FH Key Location/Qualifiers
FT MISC-difference 305..320
FT /note= "Not shown in the specification"
XX
PN JP09121869-A.
XX
PD 13-MAR-1997.
XX
PF 07-NOV-1995; 95JP-0311638.
XX
PR 07-NOV-1995; 95JP-0311638.
XX
PA (ITOH-) ITO HAM KK.
XX
WP1: 1997-314229/29.
DR N-PSDB; AAT74034.
XX
PT Male-enhanced antigen Mea-2 gene - especially from mouse, useful for
PT detecting mutation(s)
XX
PS Claim 8; Page 9-10; 13pp; Japanese.
XX
CC The present sequence represents male-enhanced antigen-2 (MEA-2), which
CC has been derived from a domestic mouse. The polynucleotide encoding
CC the protein can be used for the detection of mutations affecting the
CC MEA-2 gene.
XX
SQ Sequence 1325 AA;

Query Match 8.0%; Score 192.5; DB 18; Length 1325;
Best Local Similarity 22.4%; Pred. No. 3.2e-07;
Matches 94; Conservative 80; Mismatches 156; Indels 89; Gaps 16;

QY 65 DLAEENVLDA-EFLKNE-----LDSVKAQLSQKDRERK-----DSQAIIITLRLD 109
DB 590 elgreadsredaifllgqekivlevalgsaksdkeeldrgarrlleedteetsgllqrlq 649

QY 110 TLEERNATVESLQNALNKAEMLCSTLKKOM-----KPLEQ-----RODET-----KQ 151
DB 650 dlawksngvehlqge-----tatlrlqmqkvkeqfvgqvmvweayrldatskdqlne 702

QY 152 AREBAHRLKCKMKTMEQIELLQSORSEVE-----EMIRDMGVGOSAVQQLAVYCVSLKKE 207
DB 703 lkatckkridsemkelrgeflklgqekktvevhsrlqkdmslvlnqgmaeleghlqsvgke 762

QY 208 YEN-----LKEA-----RKATGELADRLKDLVSSRSKLTTLNTELDQA 246
DB 763 rdemeihlqslkfdkegmialteanetlkqglelqgeaekaitceqkkmrlgsdlisa 822

QY 247 KLEHRSACKDQIADQOETISLRKSSDDPPGNLEPASATNETVSRLVFESSAPVEMMNRL 306
DB 823 qkemtkhkyena---vsilstrlqea---laskcaetdaelnqraqstg--gsdplv 874

QY 307 HQPRGDEIDILNTT-----FDVNTPTPTQTSQS--QHCLPRKKLCLLEHARSMMQNVLLKV 357
DB 875 hekiralaveilqnvqgskillekelqevlmtlsgeleesrekvleledelelgesirgfrk 934

```

```

QY 358 HKVSKPESQSLSGQRCVGELEELAGAPFLFIRNAVLAGOKOPNRTAESRSSSTDVRI 416
DB 935 krleesnkklal-----elehergkltglqgsnaalrehnsllcetalekreadlrvql 986

RESULT 7
AAW94391
ID AAW94391 standard; Protein; 1325 AA.
XX
AC AAW94391;
XX
DT 14-APR-1999 (first entry)
XX
DE Mouse male enhanced antigen 2.
XX
KW Mouse; male enhanced antigen 2; Mea-2; Mus musculus domesticus;
KW spermatogenesis; regulation; contraceptive; sterile; inhibition.
XX
OS Mus sp.
XX
PN JP11018622-A.
XX
PD 26-JAN-1999.
XX
PF 04-JUL-1997; 97JP-0179490.
XX
PR 04-JUL-1997; 97JP-0179490.
XX
PA (ITOH-) ITO HAM KK.
XX
WP1: 1999-160962/14.
DR N-PSDB; AAX04132.
XX
PT Regulation of spermatogenesis using Mea-2 gene information - using
PT anti-sense oligo- or poly:nucleotide(s), used for production of
PT contraceptives
XX
PS Claim 4; Page 8-12; 27pp; Japanese.
XX
CC The present sequence represents mouse male enhanced antigen 2 (Mea-2).
CC The present invention describes the regulation of spermatogenesis by
CC using Mea-2 information. A non-human living organism can have its
CC spermatogenesis inhibited by breakage of the whole or part of the Mea-2
CC gene. Also described are: (1) the creation of the spermatogenesis-
CC inhibited organism; (2) a drug composition containing an oligonucleotide
CC or polynucleotide containing base sequences that pair with at least part
CC of the Mea-2 gene and are able to inhibit the expression of Mea-2 gene;
CC and (3) the creation of an aimed gene-possessing organism using the
CC spermatogenesis inhibited organism. The organism is useful for producing
CC contraceptive drugs.
XX
SQ Sequence 1325 AA;

Query Match 8.0%; Score 192.5; DB 20; Length 1325;
Best Local Similarity 22.4%; Pred. No. 3.2e-07;
Matches 94; Conservative 80; Mismatches 156; Indels 89; Gaps 16;

QY 65 DLAEENVLDA-EFLKNE-----LDSVKAQLSQKDRERK-----DSQAIIITLRLD 109
DB 590 elgreadsredaifllgqekivlevalgsaksdkeeldrgarrlleedteetsgllqrlq 649

QY 110 TLEERNATVESLQNALNKAEMLCSTLKKOM-----KPLEQ-----RODET-----KQ 151
DB 650 dlawksngvehlqge-----tatlrlqmqkvkeqfvgqvmvweayrldatskdqlne 702

QY 152 AREBAHRLKCKMKTMEQIELLQSORSEVE-----EMIRDMGVGOSAVQQLAVYCVSLKKE 207
DB 703 lkatckkridsemkelrgeflklgqekktvevhsrlqkdmslvlnqgmaeleghlqsvgke 762

QY 208 YEN-----LKEA-----RKATGELADRLKDLVSSRSKLTTLNTELDQA 246

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Db 763 rdemeihlsjfkdegmialteanetlkqieelqgeakkaiteqkqkmkrigsdltsa 822  
Oy 247 KLELRSAOKDQADQETSLRKSDDDPGNEPASPATNENYVSPAPVEMMNPRL 306  
Db 823 qkemtktkhkayena---vsllsrtigea---laskeatdaeenqjrradstg--gssopvl 874  
Oy 307 HOPFGDEIDLNTT-----FDVNPPTPTSGS-QHCLPKLCLERARSPMNVLRKV 357  
Db 875 hektrallevelqnvqskillekelgevlmtsgselesrekeleledelqesrgfrkrl 934  
Oy 358 HKVSPESQSLSGGRCRGELDELAGAPLFIIRNAVVGOKOPNTTAESNSTVVRKI 416  
Db 935 krleesnklal-----elehergklltjggsnaalreimslletalakreadlvgj 986  
RESULT 8  
ABBS9344  
ID ABBS9344 standard; Protein: 2056 AA.  
AC ABBS9344;  
AD 26-MAR-2002 (first entry)  
DE Drosophila melanogaster polypeptide SEQ ID NO 4824.  
DM Drosophila; developmental biology; cell signalling; insecticide;  
KW pharmaceutical.  
OS Drosophila melanogaster.  
XX  
XX WO200171042-A2.  
PD 27-SEP-2001.  
PE 23-MAR-2001; 2001WO-US09231.  
PR 23-MAR-2000; 2000US-191637P.  
PR 11-JUL-2000; 2000US-0614150.  
XX  
XX (PEKE ) PE CORP NY.  
PI Venter JC, Adams M, Li PWD, Myers EW;  
DR WPI: 2001-656860/75.  
DR N-PSDB; ABL03447.  
XX  
XX New isolated nucleic acid detection reagent for detecting 1000 or more  
PT genes from Drosophila and for elucidating cell signalling and cell-cell  
PT interactions -  
PS Disclosure; SEQ ID NO 4824; 21pp + Sequence Listing; English.  
XX  
XX The invention relates to an isolated nucleic acid detection reagent  
CC capable of detecting 1000 or more genes from Drosophila. The invention is  
CC useful in developmental biology and in elucidating cell signalling and  
CC cell-cell interactions in higher eukaryotes for the development of  
CC insecticides, therapeutics and pharmaceutical drugs. The invention  
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA  
CC sequences (ABL01840-ABL16175) and the encoded proteins  
CC (ABBS7737-ABBS72072).  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pcr\_sequences.  
XX  
XX Sequence 2056 AA:

Query Match 7.9%; Score 190; DB 22; Length 2056;  
Best Local Similarity 23.8%; Pred. No. 9.9e-07;  
Matches 88; Conservative 61; Mismatches 145; Indels 76; Gaps 14;

Oy 56 KTINKLFFDLAEEENVLDAE--FLKNELDSVKAQISQKDRKRDSQ-----AI 103  
||:| | : ||| | | | : : || : : : |

Db 1302 ktvlek-----akglleaeenadlatelrsvnsrgendrrrkqgeasqjaelqyvlae 1353  
Oy 104 IDTLRDTLEER-----NATVESLONALNKAEMLCTLKQMKFLERODETKQAREEENHR 158  
Db 1354 lerarselqekctklqgeaenltqleaeelkasaavksasmesqjleaqllleetrq 1413  
Oy 159 --LKCKMKTEOIELLOSORSEVEEMIRDMGQSAVEQLAVYCVSLKKEYENLEKAR 215  
Db 1414 klqjsksrlqrleskeaelqleeddeakrny---erklaevttqmqeikkkaeeddl 1470  
Oy 216 KATGELADRLKKDLVSSSKTKTL---NTELDQKLELRSAOKP----LOSADQETISLR 268  
Db 1471 kelegkrrlnkldlealeryqveliaqndrlidskkskklqseladatleleaqrtkvl 1530  
Oy 269 KKSDDPCEGNEPASPATNENYVSPAPVEMMNPRLHOPFGDEIDLNTFPVNPPT 328  
Db 1531 kkqk-----nfckllaeeakaseqjaqerdtareareketvlsvreldeaf----- 1580  
Oy 329 QTSQSQHCLPKLCLERARSPMNVL-----KKVHKVSKP-----ESQLS-LGQ 372  
Db 1581 -----kiedlenkrktlqnelddlantgtadknvneleakakrtalesqjaelkaq 1630  
Oy 373 KCGELDEEL 382  
Db 1631 n-eelddl 1638

RESULT 9  
AAB95497  
ID AAB95497 standard; Protein: 574 AA.  
XX  
XX AAB95497;  
AC  
AD 26-JUN-2001 (first entry)  
DE Human protein sequence SEQ ID NO:18041.  
DM Human; primer; detection; diagnosis; antisense therapy; gene therapy.  
KW Homo sapiens.  
XX  
XX EPI074617-A2.  
PD 07-FEB-2001.  
PE 28-JUL-2000; 2000EP-0116126.  
PR 29-JUL-1999; 99JP-0248036.  
PR 27-AUG-1999; 99JP-0300253.  
PR 11-JAN-2000; 2000JP-0118776.  
PR 02-MAY-2000; 2000JP-0183767.  
PR 09-JUN-2000; 2000JP-0241899.  
XX  
XX (HELI-) HELIX RES INST.  
PA Oca T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
DR WPI: 2001-318749/34.  
XX  
XX Primer sets for synthesizing polynucleotides, particularly the 5602  
PT full-length cDNAs defined in the specification, and for the detection  
PT and/or diagnosis of the abnormality of the proteins encoded by the  
PT full-length cDNAs -  
PS Claim 8: SEQ ID 18041; 2537pp + CD ROM; English.  
XX  
XX The present invention describes primer sets for synthesizing 5602  
CC full-length cDNAs defined in the specification. Where a primer set  
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary  
CC to the complementary strand of a polynucleotide which comprises one of  
CC the 5602 nucleotide sequences defined in the specification, where the  
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination



Db 1795 sdnarqqlerqnlkxklqlegavkskfkatlsaleakigleq 1842

## RESULT 11

AAAA1000 standard; Protein; 1988 AA.

AAAA1000;

22-OCT-2001 (first entry)

Human polypeptide SEQ ID NO 5931.

Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation; leukaemia.

Homo sapiens.

WO200153312-A1.

26-JUL-2001.

26-DEC-2000; 2000WO-US34263.

21-JAN-2000; 2000US-0488725.

25-APR-2000; 2000US-0552317.

09-JUL-2000; 2000US-0598042.

19-JUL-2000; 2000US-0620312.

03-AUG-2000; 2000US-0653450.

14-SEP-2000; 2000US-0662191.

19-OCT-2000; 2000US-0693036.

29-NOV-2000; 2000US-0727344.

WPI: 2001-442253/47.

N-PSDB; AAI60156.

Example 2; SEQ ID NO 5931; 10078pp; English.

Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries -

The invention relates to human nucleic acids (AAI57798-AAI61365) and the encoded polypeptides (AAI38642-AAI42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemia and C.N.S disorders.

Note: The sequence data for this patent did not form part of the printed specification.

Sequence 1988 AA;

Query Match

7.5%; Score 179.5; DB 22; Length 1988;

Best Local Similarity 21.8%; Pred. No. 7.4e-06; Matches 76; Conservative 77; Mismatches 140; Indels 55; Caps 10;

QY 68 QEEENVDAEFLKNELDVKAOLSKDKREKRDQAIIIDTLDTLEERNATVESIQNLNK 127

Db 1517 qnkqlradmedlmskddvgnkvnelekskralqeqveemtlqleedqlqatedaklr 1576

QY 128 AEMLCSTLKKOMKFLKORODE-----TKQAREEAHRLCKMK-----TMEQTEL 171

Db 1577 levmngamkqdferrdlqtrdneekkrlllkqylealeaelederkqalavaakkkmei 1636

QY 172 LLQSORSEFE--EMIRDMGVGSAVEQILAVYCVSLKREYENLKARATGELADRLKDL 229

Db 1637 dlkdlaeqleaaankard-----evikqkrkqamkdygreleearasrdeifagske- 1689

QY 220 VSSRSKLTLTLELDQALELRSAOKDQSDQDETSLRKSSDDPPGLERASATNETVS 289

Db 1690 --sekklkslaaelllqleelasserarrhaequerdel--adeltnsaqksalldkr 1744

QY 290 RL-----VFESPAPVEMMNPRLHQPFGDEIDLNTTFDVTPTPTQSGSOHCLPK 339

Db 1745 rleariagleeleeeegsmelndfrfk-----tlqydtlnaelaaersaak 1794

QY 340 ----KLCLEARSPMÖNVLRKHVSKPESQLSLGG-QRCVGELEDEL 382

Db 1795 sdnarqqlerqnlkxklqlegavkskfkatlsaleakigleq 1842

## RESULT 12

ABB71396 standard; Protein; 482 AA.

ABB71396;

26-MAR-2002 (first entry)

Drosophila melanogaster polypeptide SEQ ID NO 40980.

Drosophila; developmental biology; cell signalling; insecticide; pharmaceutical.

Drosophila melanogaster.

WO200171042-A2.

27-SEP-2001.

23-MAR-2001; 2001WO-US09231.

23-MAR-2000; 2000US-191637P.

11-JUL-2000; 2000US-0614150.

(PEKE ) PE CORP NY.

Venter JC, Adams M, Li PWD, Myers EW;

WPI: 2001-656860/75.

N-PSDB; ABL15499.

New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -

Disclosure: SEQ ID NO 40980; 21pp + Sequence Listing; English.

The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-ABB72072).





ID AAM78854:standard; Protein; 1960 AA.  
 XX  
 AC AAM78854;  
 XX  
 DT 06-NOV-2001 (first entry)  
 XX  
 DE Human protein SEQ ID NO 1516.  
 XX  
 KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;  
 KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;  
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;  
 KW nervous system disorder; arthritis; inflammation.  
 OS Homo sapiens.  
 XX  
 PN WO200157190-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 05-FEB-2001; 2001WO-US04098.  
 XX  
 PR 03-FEB-2000; 2000US-0496914.  
 XX PR 27-APR-2000; 2000US-0560875.  
 PR 20-JUN-2000; 2000US-0598075.  
 PR 19-JUL-2000; 2000US-0620325.  
 PR 01-SEP-2000; 2000US-0654936.  
 PR 15-SEP-2000; 2000US-0663561.  
 PR 20-OCT-2000; 2000US-0693325.  
 PR 30-NOV-2000; 2000US-0728422.  
 XX  
 PA (HYSE-) HYSEQ INC.  
 XX  
 PT Tang YT, Liu C, Dрманac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y,  
 XX Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW,  
 PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;  
 XX  
 DR WPI: 2001-476283/51.  
 DR N-PSDB: AAK51987.  
 XX  
 PT Nucleic acids encoding polypeptides with cytokine-like activities,  
 XX useful in diagnosis and gene therapy -  
 PS  
 PS Claim 20; Page 3813-3817; 6221pp; English.  
 XX  
 XX The invention relates to polynucleotides (AAK51456-AAK53435) and the  
 CC encoded polypeptides (AAM78323-AAH80302) that exhibit activity elating to  
 CC cytokine, cell proliferation or cell differentiation or which may induce  
 CC production of other cytokines in other cell populations. The  
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or  
 CC peptide therapy. The polypeptides have various cytokine-like activities,  
 CC e.g. stem cell growth factor activity, haematopoiesis regulating  
 CC activity, tissue growth factor activity, immunomodulatory activity and  
 CC activin/inhibin activity and may be useful in the diagnosis and/or  
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and  
 CC inflammation.  
 CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666  
 CC (AAM80020) are omitted as the relevant pages from the sequence listing  
 CC were missing at the time of publication.  
 XX  
 XX Sequence 1960 AA;  
 XX

```

Query Match          7.4%; Score 177; DB 22; Length 1960;
Best Local Similarity 19.0%; Pred. No. 1.2e-05;
Matches 107; Conservative 114; Mismatches 181; Indels 160; Gaps 21;

QY  48 QCRIVGKTTINKLFPDLAGEENV-----LDAEF--LKNELDSVKAQLSOK 93
      : : : : | | : | | : | | : : : : : : : : : : : : : : : :
Db  1073 elkmqlakke--eelqaaalareveeaqkmalkkirelesqiselselgdleesarsnka 1130
      : : : : | | : | | : | | : : : : : : : : : : : : : : : :

QY  94 DREKDDSAIIIDLTLDLTLEERNATVESIQNLNKAEMLCSTLKK-----QMKFLAQ 144
      : : : : | | : | | : | | : : : : : : : : : : : : : : : :
Db  1131 ekqkrdlgeeleaklkteledltdtsaaqaelrskregevanllkkleeaaktheaqigem 1190
      : : : : | | : | | : | | : : : : : : : : : : : : : : : :

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OY	145	RO-----DEFKARBEAHRLCKM-----KTME-----OIELLOS-----QRESEV	180
OY	145	RO-----DEFKARBEAHRLCKM-----KTME-----OIELLOS-----QRESEV	180
Db	1191	rqkhsqaveelaeg1lektlrvkanlekakqltenegrelanevkvllqgkgshkikv	1250
OY	181	EEMLRDMGV-----GSAVEDLAVYCVSLKKEEYENLEKARKKATGELADRLKDLVSSRSKL	236
Db	1251	eaqqlgelqvktnegeryrtteladkvkllqveidnvglllsgsdskskltkdfalsesql	1310
OY	237	K-----TLNTELDQAKLELRSQKDLASADQ-----EITSYLR	268
Db	1311	qdtqellqgeenrqklsstkltkvedeknsfregleeeeaekhnlekqatrlhaqvadm	1370
OY	269	KKSDDPQCNLEPASAATN-----EIVSYLVFESPA---PVEAMNPRLLQPPFGDEILDN	318
Db	1371	kmedsvygcleteaeavkrlqkldleglsqgheekvaaydklektrllqgelldllvld	1430
OY	319	-----TTFPVNTPROTSGSH-----CLP	338
Db	1431	hrgsqacnlekkqkfrqllaeekltlsakyaeerdrtaaeareketkalslaraeeame	1450
OY	339	KKLCLERA---NSPMQNVL-----KKVHKVSKPESQLSLGGQRC---VGEIDELLAG	384
Db	1491	qkaelerlnkqfitemedlmskddvgkshvhelekralqevaeamktqleelidelq	1550
OY	385	AFFLEIRNAVGLQKQPKRRTAESRSSTDVYRIGFDLGGRTFQIPRODTTIRPY-PVKS	443
Db	1551	tedakltlev-----nlqamkagferd-----lgrdqeseekkqivrvtemea	1596
OY	444	KAKSKQVRIKTVSSASQPLD	465
Db	1597	elederkqsmavarkkllamd	1618
RESULT	15		
ABG01716			
ID	ABG01716	standard; Protein; 2143 AA.	
XX	XX		
AC	ABG01716;		
XX	XX		
DT	13-FEB-2002	(first entry)	
XX	XX		
DE	Novel human diagnostic protein #1707.		
XX	XX		
KW	Human; chromosome mapping; gene mapping; gene therapy; forensic;		
KW	food supplement; medical imaging; diagnostic; genetic disorder.		
XX	XX		
OS	Homo sapiens.		
PN	MO200175067-A2.		
XX	XX		
PD	11-OCT-2001.		
XX	XX		
PF	30-MAR-2001; 2001MO-US08631.		
XX	XX		
PR	31-MAR-2000; 2000OUS-0540217.		
PR	23-AUG-2000; 2000OUS-0649167.		
XX	XX		
PA	(HYSE-) HYSEQ INC.		
XX	XX		
PI	Dymanac RT, Liu C, Tang YT;		
XX	XX		
DR	WPI: 2001-639362/73.		
DR	N-PSDB; AAS65903.		
XX	XX		
PT	New isolated polynucleotide and encoded polypeptides, useful in		
PT	diagnostics, forensics, gene mapping, identification of mutations		
PT	responsible for genetic disorders or other traits and to assess		
XX	biodiversity -		
XX	XX		
PS	Claim 20; SEQ ID No 32075; 103pp; English.		
CC	The invention relates to isolated polynucleotide (I) and		

polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy technique to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABC00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pat\\_sequences](http://wipo.int/pub/published_pat_sequences).

SQ Sequence 2143 AA;

Query Match	7.48;	Score 177;	DB 32;	Length 2143;
Best Local Similarity	19.08;	Pred. No. 1.4e-05;		
Matches 107;	Conservative 114;	Mismatches 181;	Indels 160;	Gaps 21;

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OY 48 OCRIOVGKTTINKLFFPDIAOEENV-----LDAEF--LKNLDSVKKQLSOK 93
Db 1155 elkmjlake--eeiqaalavareeaaqkma1khlrelesqiseqedelesersnka 1212
OY 94 DREKRDSQAIIPTLDTLEERNATVESLONALNKAKELSTJLK-----OKMFLQ 144
Db 1213 ekgrkdigeelaklteeledtdstaagdelrskregenvllkltleeeakcheaigem 1272
OY 145 RO-----DEKQAREBAHRLCKM---KIME-----QIELLOS-----ORSEV 180
Db 1273 rqhsgavaeeleaqlegctkrvkanlekakqtlenergelanevkvllggkgdsenkrkv 1332
OY 181 EEMIDMGV---GGSAYEQULAVYCVSLKKEVENLEAKKAGELADRLKRLDVSRSKL 236
Db 1333 eeqldgelqvkfnegevrvteladkrvkrlqveldnvtgllsgdskskltkdfsaesq 1392
OY 237 K-----TLNTELDQAKLELRSAQKDQSADO-----EITSR 268
Db 1393 qdtgelqgeonqrkrlsteklkyvedekrsfregleeeeaahlekgtalhnagyaadm 1452
OY 269 KKSDDPGNLEPASATN-----ETVSHLVESPA---PVEMMNRLHQPFGEIDN 318
Db 1453 kmedsvgoletaeevkrklqkdeglseqrheekvaaykltktrrlqgelddllvdld 1512
OY 319 -----TFPDVNTPTPTQSGSH-----CLP 338
Db 1513 hqrgasculckqkfkdgllaeektisaegeerdraaeareketkalslaraaleane 1572
OY 339 KILCJERA---RSPMONV-----KKVHVSPRESQSLSGGRC---VEBLBELAG 384
Db 1573 qkaaelerlnkgtrtemedmskdddygkvhlelekskrlbeqveemkqglelede1qa 1632
OY 385 AEPLEIRNAVLGQKOPNRTTAESRSTDVYRIGFDOLGRTTFIOPRDTIIRPV--PVKS 443
Db 1633 tedakrliev-----nldamkagferd-----lggrdqseekkqqlrvyremema 1678
OY 444 KAKSKOKVRIKTVSSASQPKLD 465
Db 1679 elederkqgrsmavaarkklemd 1700

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RESULT 16  
ABB62094  
ID ABB62094 standard; Protein; 1975 AA.  
XX

AC ABB62094;

DT 26-MAR-2002 (first entry)

DE Drosophila melanogaster polypeptide SEQ ID NO 13074.

KW *Drosophila*; developmental biology; cell signalling; insecticide;

KW pharmaceutical.

*Drosophila melanogaster*.

PN WO200171042-A2.

PD 27-SEP-2001.

PF 23-MAR-2001; 2001WO-US09231.

PR 23-MAR-2000; 2000US-191637P.

PR 11-JUL-2000; 2000US-0614150.

PA (PEKE ) PE CORP NY.

PI Venter JC, Adams M, Li PWD, Myers EW;

DR WPI; 2001-656860/

PT New isolated nucleic acid detection reagent for detecting 1000 or more genes from *Drosophila* and for elucidating cell signalling and cell-cell interactions - PT

PS Disclosure; SEQ ID NO 13074; 21pp + Sequence Listing; English.

CC The invention relates to an isolated nucleic acid detection reagent is  
CC capable of detecting 1000 or more genes from *Drosophila*. The invention  
CC useful in developmental biology and in elucidating cell signaling and  
CC cell-cell interactions in higher eukaryotes for the development of  
CC insecticides, therapeutics and pharmaceutical drugs. The invention  
CC discloses genomic DNA sequences (AB116176-AB13511), expressed DNA  
CC sequences (AB011840-AB116175) and the encoded proteins

CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).

50 Sequence 1975 AA;

Query Match	7.4%	Score 176.5	DB 22	Length 1975
Best Local Similarity	22.4%	Pred. No. 1.3e-05		
Matches 87	Conservative	68	Mismatches 139	Indels 95
				Gaps 15

```

OY 48 OORIOYQ - KTIINKLFLLAOEEVNEADLEFLKNELDSVKROLISOKEERKDS -QAIID 105
Db 1462 rcdaklgrkqamrlm -----qeeksnlctd -rkmlsaiqg -leeklkhndeqmlre 1514
OY 106 TLRDPLLEERNATVE---SLONALINKAEMLCSTPLKQMKLEORODETKTOAREEAHRLKQX 162
Db 1515 rlaqemqtaaseengneerleksrsgqskldnekr ---qlgeelaivveggrasklejd 1571
OY 163 MNTME---QIEILLQSQSEVEEMIRDMQVQCSANEGLAVYCVSLKKEYLENLEKRRKT 218
Db 1572 rvaagddlrllqma,qekocsrlrqaerlengnraltqledctalkstvdqike----- 1626
OY 219 GELIARLKKDLVLS---RSKLTPLTMTLDOA-----KLELRSAQKDLASDOEITSLR 268
Db 1627 -----rlqgsavseqlrgeikrlqlkelsesqghcsqanedkiklvgkslqtaenekrilt 1681
OY 269 KKSDDPGLLEBASATNEVSRVLESPAPVEMMRLHQPPGGEIDLNTFDVNTPTPT 328
Db 1682 erlidsaqutlmlrrtsqg -----a 1700
OY 329 QTSGSOHLCPKRLCLERASPMQONLK - -KVHVKSPRESOLSLAGORCVGELDEELAGAF 386

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Db 1701 qldgnqrlqevtdlevqrsalesqlrtakwngesggdkdltngnggngge--eelsrql 1758
QY 387 PLFIRNAVLGOKOPNRTTAESRSTDVVR 415
Db 1759 -----kssqrekselrsklqtql 1776

RESULT 17
AAE02246
ID AAE02246 standard; Protein: 1017 AA.
XX
AC AAE02246;
XX
DT 31-JUL-2001 (first entry)
XX
DE Domestic mite Bt11 allergen polymorphic variant.
XX
KW Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;
KW immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;
KW asthma; anti-allergic; anti-inflammatory; immunosuppressive.
XX
OS Blomia tropicalis.
XX
FH key Location/Qualifiers
FT Misc-difference 41
FT Misc-difference 42 /note= "Encoded by TAG"
FT Misc-difference 46 /note= "Encoded by TAG"
FT Misc-difference 56 /note= "Encoded by TAG"
FT Misc-difference 71 /note= "Encoded by TGA"
FT Misc-difference 76 /note= "Encoded by TAA"
FT Misc-difference 80 /note= "Encoded by TAG"
FT Misc-difference 86 /note= "Encoded by TGA"
FT Misc-difference 965 /note= "Encoded by TAA"
FT Misc-difference 965 /note= "Encoded by TAA"
FT Misc-difference 998 /note= "Encoded by TAA"
XX
XX WO200130817-A1.
XX
XX PD 03-MAY-2001.
XX
XX PF 10-OCT-2000; 2000MO-AU01227.
XX
XX PR 26-OCT-1999; 99SG-0005313.
XX PR 18-JUL-2000; 2000AU-0008842.
XX PR 18-JUL-2000; 2000AU-0008844.
XX PR 18-JUL-2000; 2000AU-0008845.
XX
XX PA (UYSI-) UNIV SINGAPORE NAT.
XX
XX PI Chua KY, Cheong N, Lee BW;
XX
XX DR WPI; 2001-308609/32.
XX
XX DR N-PSDB; AAD06245.
XX
XX Novel immunogenic protein derived from house mite, Blomia tropicalis
XX PT useful for treating and diagnosing conditions involving induction of
XX PT immuneresponse to mite, such as allergic asthma, atopic dermatitis,
XX PT rhinitis
XX
XX PS Claim 6; Fig 7; 230pp; English.
XX
XX CC The present invention relates to immunogenic proteins, referred as Bt
XX CC allergen, is derived from domestic mite, Blomia tropicalis. The specific
XX CC Bt allergens of the invention includes Bt11, Bt10, Bt5 and Bt42. The
XX CC immunogenic protein is useful for preventing, reducing or ameliorating

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CC Blomia tropicalis hypersensitivity condition such as atopic dermatitis,
CC immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or
CC asthma and for modulating an immune response directed to Bt allergen in
CC a subject. The Bt allergens are also useful for detecting antibody
CC directed to all or a part of Bt allergen in a biological sample from a
CC subject. Antibodies to Bt allergens are also used as therapeutic or
CC diagnostic agents, to screen Bt immunoassays and as antagonists to
CC inhibit Bt activity under circumstances where temporary hypersensitivity
CC inhibition is required. The present sequence is a protein encoded
CC by Bt11 polymorphic variant.
XX
XX S0 Sequence 1017 AA;
XX

Query Match 7.38; Score 175.5; DB 22; Length 1017;
Best Local Similarity 22.08; Pred. No. 6.2e-06;
Matches 90; Conservative 71; Mismatches 152; Indels 97; Gaps 15;

QY 76 AEFLLKNEIDSVKAOI-----SOKDREKRSQAIIDTL---RD 109
Db 346 ahtlevelaelkvqleesearelqlckangdaasvksyaaelqahvdevelr 405
QY 110 TLEERNATVPSLQNALKAEMLCSTLKKQKMFLEOROD---ETKQAREAHRLCKMKT 165
Db 406 maqkiseyeegleallnk---csalekqkarlqseaevlindlekatahaqelkrvsq 461
QY 166 MEQIEELLQSGRSEVEEMINDMGVGSQSAVQOLAVYCSLKK---EYENLKARKATGELA 222
Db 462 lekndlkskleevsml-----eqtgdlrvkladlqlqheylkqelqaelaren 515
QY 223 DRLKKDLVSSRSKLTINTELDQAKLE---LRSQKQDQASODEITSLRRKSDPPGNTLE 279
Db 516 kkladlaeaksglndhrrlrlheqelkrleneereaaaykeaelrlrgeekngrlt 575
QY 280 PASA-----TNEVSVRLVPSAPVEMANPRLHQPPGDEIDINTTFDVTTP 327
Db 576 aelaqtrdyekrlaqkeeelealrkyqlieqlimrlaea---eaklkt---evar 627
QY 328 TQTSQSHCLPKKLCLE---RARSPPQNVLLK-----VHK-VSRPESQSL 369
Db 628 lkkkyqeqltelstlaankanldlqltklqgalqltelqahydevhrqlqavdlqyv 687
QY 370 GGORC---VGEDELDELGAFFPLFIRNAVLGOKOPNRTTAESRSTDVVR 416
Db 688 tgrrcgaltaeleee-----mrvnleqalrakraaeqgmneavrv 727

RESULT 18
AAB96721
ID AAB96721 standard; Protein: 1177 AA.
XX
AC AAB96721;
XX
DT 29-OCT-2001 (first entry)
XX
DE Putative P. abyssal ATPase involved in DNA repair #3.
XX
XX KW Hyperthermophilic archaeon; hyperthermophilic protein.
XX
XX OS Pyrococcus abyssal.
XX
XX PN FR2792651-A1.
XX
XX PD 27-OCT-2000.
XX
XX PF 21-APR-1999; 99FR-0005034.
XX
XX PR 21-APR-1999; 99FR-0005034.
XX
XX PA (CNRS ) CNRS CENT NAT RECH SCI.
XX PA (IFRE-) IFREMER INST FR RECH EXPL MER.
XX
XX PI Forterre P, Thierry JC, Prieur D, Dietrich J, Lecompte O;

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PI Querellou J, Weissenbach J, Saurin W, Hellig R;  
XX WPI; 2001-126236/14.  
XX  
XX  
PT New nucleotide sequences isolated from *Pyrococcus abyssi* encode  
PS proteins useful in industry -  
XX  
XX Claim 7; Pages 1483-1487; 1657pp; French.  
CC The present invention relates to the genomic sequence of *Pyrococcus*  
CC *abyssi* (see AA86431 and AAH1223-7) and *P. abyssi* proteins. *P. abyssi* is  
CC a hyperthermophilic archaeon, which is isolated from deep-sea  
CC hydrothermal vents. The present sequence is one such *P. abyssi* protein.  
CC The proteins of the present invention have various potential industrial  
CC uses, since the proteins are stable at very high temperatures, some up to  
CC 110 degrees centigrade.  
CC Note: This patent is in the same patent family as WO2000065062, which  
CC contains additional sequences as shown in AAB9132-AAB9143,  
CC AAH75903-AAH75920 and AAG66436.  
XX  
XX  
SQ Sequence 1177 AA;  
  
Query Match 7.3%; Score 175; DB 22; Length 1177;  
Best Local Similarity 21.0%; Pred. No. 8.5e-06;  
Matches 88; Conservative 86; Mismatches 155; Indels 90; Gaps 17;  
  
QY 61 KLFEDLAQEEENVDAEFKLNELDSVKAQLSQKREKRDQAIDTLRDILEENAYES 120  
DB 178 kaqlqlqaenlaravdlilre---vkkqldklexerndatrlid-lkerle--rarvel 231  
QY 121 LQNALNKAEMLCSTLKQMKFLEORDETKOARE---AHLKCKMKMTMEQIELLSQ 176  
DB 232 ilglitkve---seiknderiekleeekleekleekleekleekleekleekle 288  
QY 177 RS-----EVENI---RDMGVGSAVQQLAVYCVSLKKEYEN-LKEARKATGE 220  
DB 289 sseaelkltreigevnkskinakrnievakkeldeaqrllkakdelkvlseiekskya 348  
QY 221 LADRLK-----KDLVSRSKLTNTLNTLQAKLELRSAQNDLSADDEITSLRKS 271  
DB 349 iarwqkakeallnkikeeernkivklgeidrt---favarefdvnlvlelenarksl 405  
QY 272 DDPPGNLEPASATNETVSRLVFESPAVEMNPRLLHOPPFGEIDTLTTFDVNTPTQTS 331  
DB 406 yeneadkrlleaekerls-----srlllkakl--pglreevek----- 442  
QY 332 GSOHCLPRKLCLELRARSPMONVLRKVKHVSKEPSQLSGQRCVGELE---ELAGAFPL 388  
DB 443 -----lrek--leekkaelsivenkissisqrrrkveeelektselqkvsesleslere 495  
QY 389 FIRNAVIGOKOPNRTTAESRSSTDVVRIGFGLGGRKTFOPRDTTIRRPVSKAKS 447  
DB 496 lllkaagsevrvtavaelk-----rsglsqlyg-----lllellrvkdemys 538  
  
RESULT 19  
AAE02245  
ID AAE02245 standard; Protein: 875 AA.  
XX  
XX AAE02245;  
XX  
XX 31-JUL-2001 (first entry)  
XX  
XX Domestic mite Bt11 allergen.  
XX  
XX Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;  
XX immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;  
XX asthma; antiasthmatic; antiinflammatory; immunosuppressive.  
XX  
XX Blomia tropicalis.  
XX  
XX WO200130817-A1.

XX  
PD 03-MAY-2001.  
XX  
XX  
PF 10-OCT-2000; 2000MO-AU01227.  
XX  
XX  
PR 26-OCT-1999; 99SG-0005313.  
PR 18-JUL-2000; 2000AU-0008842.  
PR 18-JUL-2000; 2000AU-0008844.  
PR 18-JUL-2000; 2000AU-0008845.  
XX  
XX (UYST-) UNIV SINGAPORE NAT.  
XX  
XX China KY, Cheong N, Lee BW;  
XX  
XX WPI; 2001-308609/32.  
XX  
XX N-PSDB: AAD06237.  
DR  
XX  
XX  
XX Novel immunogenic protein derived from house mite, *Blomia tropicalis*  
XX useful for treating and diagnosing conditions involving induction of  
XX immune response to mite, such as allergic asthma, atopic dermatitis,  
XX rhinitis -  
XX  
XX  
XX Disclosure; Page 162-166; 230pp; English.  
XX  
XX The present invention relates to immunogenic proteins, referred to as Bt  
XX allergens, derived from domestic mite (*Blomia tropicalis*). The specific  
XX Bt allergens of the invention includes Bt11, Bt10, Bt5 and Bt2. The  
XX immunogenic protein is useful for preventing, reducing or ameliorating  
XX *Blomia tropicalis* hypersensitivity condition such as atopic dermatitis,  
XX immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or  
XX asthma and for modulating an immune response directed to Bt allergen in  
XX a subject. The Bt allergens are also useful for detecting antibody  
XX directed to all or a part of Bt allergen in a biological sample from a  
XX subject. Antibodies to Bt allergens are also used as therapeutic or  
XX diagnostic agents, to screen Bt immunoassays and as antagonists to  
XX inhibit Bt activity under circumstances where temporary hypersensitivity  
XX inhibition is required. The present sequence is Bt11 allergen.  
XX  
XX  
SQ Sequence 875 AA;  
  
Query Match 7.3%; Score 174.5; DB 22; Length 875;  
Best Local Similarity 21.7%; Pred. No. 6.1e-06;  
Matches 89; Conservative 71; Mismatches 153; Indels 97; Gaps 15;  
  
QY 76 AEFKLNELDSVKAQD-----SQRKREKRDQAIDTLRDILEE 113  
DB 257 ahtlevelseslkvgleesearlelerqltkangdaaswkskyaaelqahvdevelrpk 316  
QY 114 RNATV---ESTQNALNKAEMLCSTLKQMKFLEOROD---ETKQAREEAHLKCKMKT 165  
DB 317 maqkiseygeqleallnk-----csalekqkarlsevevlmldekatatahaqelekrvsq 372  
QY 166 MEQIELLSQSRSEVEEMIRDMGVGSAVQQLAVYCVSLK---EYENLKEARKATGELA 222  
DB 373 leklnldlkskleevsmll-----eqqkdlrvkaidlqklqheylrkdqalearen 426  
QY 223 DRLKDLVSSRSKLTNTLTELDOAKL---LRSQKDLQSDQETLSLRKSDPPGNLE 279  
DB 427 kkladdlaaeksglndatrrthegelelkrleeneereelaaykaeeltkrkeeknqrilt 486  
QY 280 PASA-----TNETVSRLVFESPAVEMNPRLLHOPPFGEIDTLTTFDVNTPTP 327  
DB 487 aelagtrndyekrlaqkeeelealrkqyqieqlmmleaa-----eaklkt-----ewar 538  
QY 328 TQTSQSOHCLPRKLCLE---RARSPMONVLRK-----VHK-VSKRESQSLT 369  
DB 539 lkkrygaqitelaisdaankandlqklkkgalqitglqahydevhrpqgavdvdyg 598  
QY 370 GGORC---VGELEDELAGAFPLFIRNAVIGOKOPNRTTAESRSSTDVRI 416  
DB 599 tqrtogaltaelee-----mrvtlqegalrakraaegmhnaevrv 638

```
RESULT 20
AAE02242
ID AAE02242 standard; Protein: 878 AA.
AC AAE02242;
XX
XX 31-JUL-2001 (first entry)
DE Domestic mite Bt11 allergen #7.
XX
XX Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;
KW immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;
KW asthma; anti-allergic; anti-inflammatory; immunosuppressive.
OS Blomia tropicalis.
XX
XX WO200130817-A1.
XX
XX 03-MAY-2001.
XX
XX 10-OCT-2000; 2000WO-AU01227.
XX
XX 26-OCT-1999; 99SG-0005313.
XX 18-JUL-2000; 2000AU-0008842.
XX 18-JUL-2000; 2000AU-0008844.
XX 18-JUL-2000; 2000AU-0008845.
XX
XX (UYST-) UNIV SINGAPORE NAT.
XX
XX China KY, Cheong N, Lee BW;
XX
XX WPI: 2001-308609/32.
XX
XX N-PSDB; AAD06236.
XX
XX Novel immunogenic protein derived from house mite, Blomia tropicalis
XX useful for treating and diagnosing conditions involving induction of
XX immune response to mite, such as allergic asthma, atopic dermatitis,
XX rhinitis
XX
XX Claim 4; Fig 3; 230pp; English.
XX
XX The present invention relates to immunogenic proteins, referred as Bt
XX allergen, is derived from domestic mite, Blomia tropicalis. The specific
XX Bt allergens of the invention includes Bt11, Bt10, Bt5 and Bt42. The
XX immunogenic protein is useful for preventing, reducing or ameliorating
XX Blomia tropicalis hypersensitivity condition such as atopic dermatitis,
XX immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or
XX asthma and for modulating an immune response directed to Bt allergen in
XX a subject. The Bt allergens are also useful for detecting antibody
XX directed to all or a part of Bt allergen in a biological sample from a
XX subject. Antibodies to Bt allergens are also used as therapeutic or
XX diagnostic agents, to screen Bt immunoassays and as antagonists to
XX inhibit Bt activity under circumstances where temporary hypersensitivity
XX inhibition is required. The present sequence is Bt11 allergen.
XX
XX Sequence 878 AA:
SO
Query Match 7.3%; Score 174.5; DB 22; Length 878;
Best Local Similarity 21.7%; Pred. No. 6.1e-06;
Matches 89; Conservative 71; Mismatches 153; Indels 97; Gaps 15;
```

```
Db 376 IekInIdIkskleevsmI]-----eqtkdIrvkIadIqkIqheyeKIdrqkealaren 429
QY 223 DRKKDlVSSRSRkTINTeLDOAKLE---lRSaOKLOsADORITSLRRKSDPPCNLE 279
Db 430 kkladdlaeaksgIIndahrrIthegeIekIrleneereelaaykaecltrqeeakngrlt 489
QY 280 PASA-----TNETVSRlVFESPAVEMNPNRLHQPPGDEIDlNTTFDVTMP 327
Db 490 aelagtrhdyekrlaqkeeeIealrkqgleIegImnrIae-----eaklkt-----evar 541
QY 328 TQTSQCHCLPKLCLE---RARSPMONVLKK-----VHK-VSKPESQLSL 369
Db 542 lkkkyqgeIteIeIsdaanKanIdlktIkqalgtIqahydeVhrqIqgavdqIgy 601
QY 370 GGORC---VGEI DEELAGAPFLFIRNAVLGOKOPNRTTAESRSSTDVVRl 416
Db 602 tgrcgaltaeIee-----mrVnlqegalakraaeqmhvaeavrv 641

RESULT 21
AAB69070
ID AAB69070 standard; Protein: 1374 AA.
AC AAB69070;
XX
XX 19-APR-2001 (first entry)
XX
XX Human male enhanced antigen-2 (MEA-2) protein sequence SEQ ID NO:2.
DE
XX Human; male enhanced antigen-2; MEA-2; identification; spermatogenesis;
KW spermatogenesis disease; chromosome marker; pancreatic cancer.
XX
XX Homo sapiens.
XX
XX JP2000316580-A.
XX
XX 21-NOV-2000.
XX
XX 30-APR-1999; 99JP-0125196.
XX
XX 30-APR-1999; 99JP-0125196.
XX
XX 30-APR-1999; 99JP-0125196.
XX
XX (ITOH-) ITO HAM KK.
XX
XX WPI: 2001-128256/14.
XX
XX N-PSDB; AAF32508.
XX
XX A new protein, human male-enhanced antigen-2, useful for detecting
XX spermatogenesis diseases
XX
XX Claim 1; Page 12-15; 21pp; Japanese.
XX
XX The present sequence represents the human male enhanced antigen-2
XX (MEA-2). The present invention also described an antibody specific for
XX the MEA-2 protein. The antibody can be used for the identification of a
XX gene causing diseases related to spermatogenesis. The MEA-2 nucleotide
XX sequence is useful as a chromosome marker, and in the detection of
XX pancreatic cancer.
XX
XX Sequence 1374 AA:
SO
Query Match 7.3%; Score 174; DB 22; Length 1374;
Best Local Similarity 23.0%; Pred. No. 1.3e-05;
Matches 96; Conservative 68; Mismatches 153; Indels 100; Gaps 15;
```



PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;  
PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;  
XX  
DR WPI: 2001-476283/51.  
DR N-PSDB: AAK52397.  
XX  
PT Nucleic acids encoding polypeptides with cytokine-like activities,  
PT useful in diagnosis and gene therapy -  
XX  
PS Claim 20: Page 4327-4329; 6222pp; English.  
XX  
XX The invention relates to polynucleotides (AAK51456-AAK53435) and the  
CC encoded polypeptides (AAW8333-AAW80302) that exhibit activity elating to  
CC cytokine, cell proliferation or cell differentiation or which may induce  
CC production of other cytokines in other cell populations. The  
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or  
CC peptide therapy. The polypeptides have various cytokine-like activities,  
CC e.g. stem cell growth factor activity, haematopoietic regulating  
CC activity, tissue growth factor activity, immunomodulatory activity and  
CC activin/inhibin activity and may be useful in the diagnosis and/or  
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and  
CC inflammation.  
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK53582) and 3666  
CC (AAW80020) are omitted as the relevant pages from the sequence listing  
CC were missing at the time of publication.  
XX  
XX Sequence 1203 AA:

Query Match 7.38; Score 173.5; DB 22; Length 1203;  
Best Local Similarity 21.0%; Pred. No. 1.2e-05;  
Matches 96; Conservative 80; Mismatches 181; Indels 101; Gaps 15;

QY 17 SRDVAIHGHTFHLCLOHFEFAPSPRTCPQCRIVQCKKTIINKLFPDLQOEENVIDA 76  
DB 650 sqevagrhrdrelqklavilveadrgleeqnldqklqldqdeesakamvea 709  
QY 77 F-----LKNELDSVKAOLSKDKREKDSQAID-----TLRDTLEE 113  
DB 710 eatlyqgraaavettlretgeendeffrillgleqqlketgylvdggaavearltdkqr 769  
QY 114 RNATVESLONLAKAEMLCSTLKRMKFLQRODETKO--AR--EAAHRLCKMKMTMOI 169  
DB 770 leaekqgleealnasegeeglaaakraleaeagqlarlqgeqqlrraleeqk 829  
QY 170 ELLQSQRSVEEMIRDMG-----VGOSAVDQLAVYCVSLKKEVENLKEARKA 217  
DB 830 revlrrgkaealeeqkrlldrtvdrlnkelekgedsqalq---qlaqledyke--ka 883  
QY 218 TGEIAD-----RLKNDLVSSRSKLKTLNTELDOAKLELSAQKDL 257  
DB 884 rrevadagrqakvaseaektsqslrldqdeigrlrqalqsgqerdarldkelqrl 943  
QY 258 QSAOQETSLRKKSDDPPGNLEPASATNIVSRL--VFESPAVEMMNPRLHQPFGDE 314  
DB 944 qglegeeenkkrsgddrarqik---gleekvrsleteldeeknvevlltdivrg--rdq 998  
QY 315 ID-LNTFTFDVNTPTQYSGSQHCLPKKLCLEARSQMNVLKVKHVKSPRSQSLGQR 373  
DB 999 vdgrrtel-----mgersarqdlecdkisltergnkdiktrlasseqfgkpsasiss---- 1048  
QY 374 CVGELDELAGAPFLIRNAVLGQKOPNRTTAESRSSR 411  
DB 1049 ---qlesg-----ngllgerlgaerekt 1069

RESULT 24  
AAW40292  
ID AAW40292 standard; Protein; 864 AA.  
XX  
AC AAW40292;  
XX  
DT 22-OCT-2001 (first entry)

XX  
DE Human polypeptide SEQ ID NO 3437.  
XX  
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;  
KW peripheral nervous system; neuropathy; central nervous system; CNS;  
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;  
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;  
KW leukaemia.  
XX  
XX Homo sapiens.  
XX  
PN WO200153312-A1.  
XX  
PD 26-JUL-2001.  
XX  
XX 26-DEC-2000; 2000WO-US34263.  
XX  
XX 21-JAN-2000; 2000US-0488725.  
PR 25-APR-2000; 2000US-0552317.  
PR 09-JUL-2000; 2000US-0598042.  
PR 19-JUL-2000; 2000US-0620312.  
PR 03-AUG-2000; 2000US-0653450.  
PR 14-SEP-2000; 2000US-0662191.  
PR 19-OCT-2000; 2000US-0693036.  
PR 29-NOV-2000; 2000US-0727344.  
XX  
XX (HYSE-) HYSEQ INC.  
XX  
XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;  
PI Wang Z, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;  
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;  
XX  
DR WPI: 2001-442253/47.  
DR N-PSDB: AAI59448.  
XX  
PT Novel nucleic acids and polypeptides, useful for treating disorders  
PT such as central nervous system injuries -  
XX  
PS Example 5; SEQ ID NO 3437; 10078pp; English.  
XX  
XX The invention relates to human nucleic acids (AAI57798-AAI61369) and  
CC the encoded polypeptides (AAW38642-AAW42213) with nootropic,  
CC immunosuppressant and cytostatic activity. The polynucleotides are useful  
CC in gene therapy. A composition containing a polypeptide or polynucleotide  
CC of the invention may be used to treat diseases of the peripheral nervous  
CC system, such as peripheral nervous injuries, peripheral neuropathy and  
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic  
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
CC utilisation of the activities such as: Immune system suppression,  
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
CC assays for receptor activity, arthritis and inflammation, leukaemia and  
CC C.N.S disorders.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification.  
XX  
SQ Sequence 864 AA;

Query Match 7.28; Score 172.5; DB 22; Length 864;  
Best Local Similarity 20.0%; Pred. No. 8.9e-06;  
Matches 92; Conservative 75; Mismatches 179; Indels 115; Gaps 15;

QY 82 ELDSVKAQLSOKDEKRDQAIIIDTLRDLERNATVESLONLAKAEMLCSTLKRMK 141  
DB 385 elddisqleagldgrekysleqgdirekeaalrgktsveqelqndldtsslqleaqkd 444  
QY 142 LEORODETKQAREBAH-----RLKCKMKT--MQQIFLLQSQRSVEEMIRDMGVQSA 193  
DB 445 agdrlidemqdkaklrlmsldvrgkcdqetqmsslktqigsqesdiksgeaddlnrakse 504



RESULT	25
AA072826	
ID	AA072826 standard; Protein; 2482 AA

CC	mitotic spindle poles. Mitosis is necessary for a eukaryotic cell to
CC	enter the M phase of the mitotic cell cycle and its degradation is thus
CC	necessary for a cell to advance on to the next stage. Mitosis is thus
CC	useful for controlling cell growth as overexpression of mitosis prevents
CC	a cell from exiting the M phase.
CC	An anti-mitosis antibody, antibody fragment or a phosphorylated mitosis
CC	inhibitor (or nucleic acid encoding it) can also be used to inhibit cell
CC	division which is particularly useful for the study of the cell cycle.
CC	A further use is to control hyperproliferative cells, and so control
CC	diseases such as psoriasis and breast cancer. It can also be used to
CC	block gametogenesis of an immature gamete.
XX	
SO	Sequence 2482 AA:
Query Match	7.2%; Score 172.5; DB 16; Length 2482;
Best Local Similarity	24.3%; Pred. No. 4.1e-05;
Matches 74; Conservative 53; Mismatches 109; Indels 69; Gaps 10;	
OY	56 KTIINKLFEDLAQEEEN---VLDAEFLKELSDSVKAOI-----SOK 93
Db	1521 kdkvenlrelqlmseengqlvlldaenskaevetlktgleamarslkvfeldvlrlsek 1580
OY	94 D-----REKRDQAIIIDTLRDTL-----EENNAVESIQNALNKAEMIC 132
Db	1561 enltkqkqekqqlselklissifslleekqaeigikkeesktavemlqnglkelnear 1640
OY	133 STL---KKOMFLFEOROD---ETQARPEAHRLCKMKMTQOIELLOSQRSE----- 179
Db	1641 aalgqdgelmkategslpdppeeelnslsktlrarleadekkgqlcvyqqlkeesehad 1700
OY	180 ---VEEMIRDMGVGASVEQLAVYCVSLKKEYENLKEARRATGELADRLKRDLVSSRS 234
Db	1701 llkgrvenlereletartngenaaleenskgvetlkkikgmctgslrgleldvrlts 1760
OY	235 KIKTLNTELDQ-----AKIEL--RSAQKDLGADQETISLKRKSDPPENLE-PASATNE 286
Db	1761 ekenltneqlkegeriselstelnssfenllgkeqekygmkekssstamemlqtqlkeine 1820
OY	287 TVSRL 291
Db	1821 rvaal 1825
RESULT 26	
AAW23996	AAW23996 standard; Protein: 2482 AA.
XX	
AC	AAW23996;
XX	
DT	28-MAY-1998 (first entry)
XX	
DE	Human mitosis amino acid sequence.
XX	
KW	Mitosis: phosphoprotein; mitotic cell cycle; antibody; analogue;
KW	inhibition; M phase; Antagonist; hyperproliferative cell; cancer;
KW	leukaemia; lymphoma; chromosome segregation.
XX	
OS	Homo sapiens.
XX	
FH	Key Location/Qualifiers
FT	Domain 258..280
FT	/note="leucine heptad repeat"
FT	Domain 340..362
FT	Domain 564..593
FT	Domain 1387..1443
FT	Domain 1885..1962
FT	Domain 2146..2188
FT	Domain 2165..2187
FT	/note="leucine heptad repeat"
FT	Misc-difference 2188
FT	Misc-difference 2300
FT	/label="Bipartite targeting motif"









PS Claim 20; SEQ ID NO 51592; 103pp; English.  
 CC The invention relates to isolated polynucleotide (I) and  
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
 CC and gene mapping, and in recombinant production of (II). The  
 CC polynucleotides are also used in diagnostics as expressed sequence tags  
 CC for identifying expressed genes. (I) is useful in gene therapy techniques  
 CC to restore normal activity of (II) or to treat disease states involving  
 CC (II). (II) is useful for generating antibodies against it, detecting or  
 CC quantitating a polypeptide in tissue, as molecular weight markers and as  
 CC a food supplement. (II) and its binding partners are useful in medical  
 CC imaging of sites expressing (II). (I) and (II) are useful for treating  
 CC disorders involving aberrant protein expression or biological activity.  
 CC The polypeptide and polynucleotide sequences have applications in  
 CC diagnostics, forensics, gene mapping, identification of mutations  
 CC responsible for genetic disorders or other traits to assess biodiversity  
 CC and to produce other types of data and products dependent on DNA and  
 CC amino acid sequences. ABG00010-ABG30377 represent novel human  
 CC diagnostic amino acid sequences of the invention.  
 CC Note: The sequence data for this patent did not appear in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pcl\_sequences.  
 CC  
 XX Sequence 1948 AA:

Query Match 7.1%; Score 170.5; DB 22; Length 1948;  
 Best Local Similarity 20.5%; Pred. No. 4.2e-05;

Matches 78; Conservative 83; Mismatches 169; Indels 51; Gaps 11;

QY 55 KRTIINKLFPDLAQBENNVDAEFLKNELDVSKAQLSOKDRERDSQAIIIDTLRDTLEER 114  
 Db 1273 qqrllnel---saqkarlhsegsfqrldedkamwqslrgrqafqleelkrgdeee 1329  
 QY 115 NATVESIQNALNKAEMICSTLKKOMKFLERODETKOAREBAHRLCKMKTMEQIELL-- 172  
 Db 1330 tkakstahalgarncdllrqqeegaeakelqrgmekanasevqrktyetdaigr 1389  
 QY 173 ---LOSRSVEEMIRMGVGSABEQALAVYSIKKEYENLK-----EARKATG 219  
 Db 1390 teeleekkklaqrigd---aeehveavnskcaslektkqrlqnevedlmdversnaac 1446  
 QY 220 ELADRLKK--DLVSSRSKLTNTLTDQAKLELRSAGKQDSADOETLSLRKSDPPGN 277  
 Db 1447 laidkkgrndkylaeakqg-----yeetqaeleasgkeersstelfxknayeesldh 1501  
 QY 278 LEPASATNEVSRVLESPAPVEMANPRLHQPPEGEID--LNTTFDVNTPTOTSGSQHC 336  
 Db 1502 letikrenknlgqelsdlteqjaegqkhlh-----elkvkkqjldhekselqts----- 1550  
 QY 337 LPRKLCLELRASPMONLKKVHKVSKPESQSLSGGRCVGELEDELALAGAPFLIRNAV-L 395  
 Db 1551 -----leeaaaleheegkllrqlqelnqvkseidkkaekdeel---dqklrnhlrv 1600  
 QY 396 GOKQPNRTTAESRSSTDVARI 416  
 Db 1601 vesmgstldeetrndalrli 1621

RESULT 33  
 AAM79838  
 ID AAM79838 standard; Protein; 1963 AA.  
 XX  
 XX AAM79838;

XX 06-NOV-2001 (first entry)  
 XX  
 DE Human protein SEQ ID NO 3484.

KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;  
 KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;  
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;

KW nervous system disorder; arthritis; inflammation.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200157190-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 05-FEB-2001, 2001WO-US04098.

XX 03-FEB-2000, 2000US-0496914.  
 PR 27-APR-2000, 2000US-0560875.  
 PR 20-JUN-2000, 2000US-0598075.  
 PR 19-JUL-2000, 2000US-0620325.  
 PR 01-SEP-2000, 2000US-0654936.  
 PR 15-SEP-2000, 2000US-0663561.  
 PR 20-OCT-2000, 2000US-0693325.  
 PR 30-NOV-2000, 2000US-0728422.

XX (HYSB-) HYSBQ INC.

XX Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;  
 PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;  
 PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;  
 XX

DR MPI; 2001-476283/51.  
 DR N-PSDB; AAK52971.

XX Nucleic acids encoding polypeptides with cytokine-like activities,  
 PT useful in diagnosis and gene therapy -  
 XX

PS Claim 20; Page 354-355; 6221pp; English.

XX The invention relates to polynucleotides (AAK51456-AAK53435) and the  
 CC encoded polypeptides (AAM78323-AAK80302) that exhibit activity elating to  
 CC cytokine, cell proliferation or cell differentiation or which may induce  
 CC production of other cytokines in other cell populations. The  
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or  
 CC peptide therapy. The polypeptides have various cytokine-like activities,  
 CC e.g. stem cell growth factor activity, haematopoiesis regulating  
 CC activity, tissue growth factor activity, immunomodulatory activity and  
 CC actinin/inhibin activity and may be useful in the diagnosis and/or  
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and  
 CC inflammation.  
 CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666  
 CC (AAM60020) are omitted as the relevant pages from the sequence listing  
 CC were missing at the time of publication.  
 XX

XX Sequence 1963 AA:

Query Match 7.1%; Score 170.5; DB 22; Length 1963;  
 Best Local Similarity 20.4%; Pred. No. 4.3e-05;  
 Matches 105; Conservative 99; Mismatches 167; Indels 143; Gaps 22;

QY 65 DLAQEENNVDAEFLKNELDVSKAQLSOKDRERDSQAIIIDTLRDTLEERNATVES-LQN 123  
 Db 1138 dlyeele-aklte-ledtldstaq--qelrskrge--vnlkktleeeakkeagdeq 1191  
 QY 124 ALNKAEMICSTLKKOMKFLERODETKOAREBAHRLCKMKTME-----OIELLOS 175  
 Db 1192 mrqkhsqaveelaegj-----eqtkrvkanlekak---qltenergelanevkvllqg 1241  
 QY 176 -----QRSEVEEMIRDMGV-----GGSABVQALAVYCVLSIKKEYENLKEARKAAGELADRL 225  
 Db 1242 kgdsehkkrkveaqelqykvlfnegevrvteladkvtklqvelndvlgllsgdsksk 1301  
 QY 226 KRDVSSRSKLLK-----TLNTELDQAKLELRSAGKQDSADOE----- 263  
 Db 1302 tkdfsaesqlqdtqgelqgeonrqklsistklkqvvedeknsfregleeeeeeaknhlekq 1361  
 QY 264 -----ITSLRKSDPPGNLEPASATN-----ETVSRLVFESPA---PYEMMNPRI 306

Db 1362 laatlhaqadmkkkmedsvgcleetaeevkrk1qkldleglsqrheekvaaydklektr1 1421  
 QY 307 HOPFGEIDLN-----TFDVNTPTPTSGSOH----- 335  
 Db 1422 qgqelddlvldlqrgsaclnekqkffqdl1aeekclisakyaeeadraaareketka 1481  
 QY 336 -----CLPKKLCLERA-----RSPMQNVL-----KKVHKVSKPESQLSIGGRC- 374  
 Db 1482 ls1arlaeeameqkaelerlnkqftrtemedlmskddvgkshvhelekskraieqveemk 1541  
 QY 375 --VGEDELDELGAAPPLFIRNAVLGQKOPNRTLAESRSTDVYRIGFDLGGRKTFIOPRD 432  
 Db 1542 tqleeeledqatedakrlirv-----nlqamkagferd-----lqgrdeqseekk 1587  
 QY 433 TTIIRPV-PVKSRAKSKOKVRIKTVSSASOPKLD 465  
 Db 1588 kqlrvyremeealeederkqgrsmavaarkkllemd 1621  
 RESULT 34  
 ABG27218  
 ID ABG27218 standard; Protein; 2918 AA.  
 AC ABG27218;  
 XX 18-FEB-2002 (first entry)  
 DT Novel human diagnostic protein #27209.  
 DE  
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
 KW food supplement; medical imaging; diagnostic; genetic disorder.  
 XX Homo sapiens.  
 OS  
 PN W0200175067-A2.  
 PD 11-OCT-2001.  
 XX 30-MAR-2001; 2001MO-US08631.  
 PF 31-MAR-2000; 2000US-0540217.  
 PR 23-AUG-2000; 2000US-0549167.  
 XX (HYSE-) HYSEQ INC.  
 PA  
 XX Drmanac RT, Liu C, Tang YT;  
 PI WPI, 2001-639362/73.  
 DR N-PSDB; AAS91405.  
 XX  
 PT New isolated polynucleotide and encoded polypeptides, useful in  
 PT diagnostics, forensics, gene mapping, identification of mutations  
 PT responsible for genetic disorders or other traits and to assess  
 PT biodiversity -  
 PS Claim 20; SEQ ID NO 57577; 103bp; English.  
 XX  
 CC The invention relates to isolated polynucleotide (I) and  
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
 CC and gene mapping, and in recombinant production of (II). The  
 CC polynucleotides are also used in diagnostics as expressed sequence tags  
 CC for identifying expressed genes. (I) is useful in gene therapy techniques  
 CC to restore normal activity of (II) or to treat disease states involving  
 CC (II). (II) is useful for generating antibodies against it, detecting or  
 CC quantitating a polypeptide in tissue, as molecular weight markers and as  
 CC a food supplement. (II) and its binding partners are useful in medical  
 CC imaging of sites expressing (II). (I) and (II) are useful for treating  
 CC disorders involving aberrant protein expression or biological activity.  
 CC The polypeptide and polynucleotide sequences have applications in  
 CC diagnostics, forensics, gene mapping, identification of mutations  
 CC responsible for genetic disorders or other traits to assess biodiversity  
 CC and to produce other types of data and products dependent on DNA and

CC amino acid sequences. ABG00010-ABG30377 represent novel human  
 CC diagnostic amino acid sequences of the invention.  
 CC Note: The sequence data for this patent did not appear in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pcl\_sequences.  
 XX  
 SQ Sequence 2918 AA;  
 Query Match 7.18; Score 170.5; DB 22; Length 2918;  
 Best Local Similarity 18.0%; Pred. No. 7.6e-05;  
 Matches 93; Conservative 110; Mismatches 210; Indels 103; Gaps 15;  
 QY 35 IOMETAPSRTPCPCRFVCGKTTINKLPFLDQEEENVLDAPF----- 78  
 Db 1561 lqknsatetlnklkqgeqeltl-rldyervsgeltvqddtltrfnsklqlqkq 1619  
 QY 79 LKNELDSVKAQLSQDKREKDSQAIDTLNRLTEERNATVESLONALNKAEMLC---ST 134  
 Db 1620 veeelnrlkrtasedsckrkleelegmrrslkegalklntlqlegaslvkksedd 1679  
 QY 135 LKKQMKLEORQDPTKQAREEARLKKCKMKTMEQIELLOSQR-----EVE 181  
 Db 1680 lrgqrdvldghlrekgftrgelrlssevealrr--qlqgesvkgahlrnehfgkaje 1737  
 QY 182 EMIRDMGVGSAVPEQLAVYCVSLKKEVENLKE-----ARKATGELADRLKLDLV 230  
 Db 1738 dksrlnesklelerlqslentlkenhleeelnrlleyddlrrseadscknatil 1797  
 QY 231 SSRSKLTNLTLDQAKLELSAQKDLQADQETTSLRKSDPPGNLEPA-----SATN 285  
 Db 1798 elrsqqlsmnrtlelqglndlqgrrenlrqetlekfgqgleasnrlgesknqctqvq 1857  
 QY 286 ETYSRLV-----FESPAVEEMNRLHQPPGDEIDLNT-----TFDVNTPTPTQ 329  
 Db 1858 eresllvklvleqdkarlqlledeInraksleaelrvkqrlceekqqlndinqkttq 1917  
 QY 330 TSGSOHCLPKKLCLEARSP-----MONVLKKVKK-----VSKPESOLS 368  
 Db 1918 ysrlkeael-rkieserehsereksnlrselelqaelrlreerrrklledstretqslq 1976  
 QY 369 LGGRCVGEDELDELGAAPPLFIRNAVLGQKOPNRTLAESRSTDVYRIGFDLGGRKTFI 428  
 Db 1977 terrygredk-----lrgrypsnreigt--ecetvdtstlvfaglkkvtam 2025  
 QY 429 QPRDITIIRPVVSKAKSKOKVRIKTVSSASOPKL 464  
 Db 2026 qlyecqjldkrltdklkqkksv--eevaseigpfl 2059  
 RESULT 35  
 AAR42818  
 ID AAR42818 standard; Protein; 1093 AA.  
 AC AAR42818;  
 XX  
 DT 27-APR-1994 (first entry)  
 XX  
 DE TMF.  
 KW TATA modulating factor; TMF; transcription; TATA box; promoter; HIV-1;  
 KW human immunodeficiency virus-1; short arm; human chromosome 3; p12-p13;  
 XX translocation; cancer.  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT Region 437..850  
 FT Region /label= TATA binding region  
 FT Region 769..777  
 FT Region /note= "Ubiquitin-mediated protein degradation  
 FT Region /consensus sequence homology region"  
 FT Region 454..614

FT	/note=	"Region with Leucine zipper secondary structure"
FT	Region	986..1069
FT	/note=	"Region with Leucine zipper secondary structure"
FT	Region	1070..1078
FT	/note=	"ubiquitin-mediated protein degradation consensus sequence homology region"
FN	W09320106-A.	
PD	14-OCT-1993.	
XX		
XX	31-MAR-1993;	93WO-US03077.
XX	02-APR-1992;	92US-0862025.
XX		
PA	(TEXA ) UNIV TEXAS SYSTEM.	
XX		
P1	Gaynor RB, Wu F;	
DR	WPI: 1993-336836/42.	
DR	N-PSDB: AA049397.	
XX		
XX	New protein cellular factor - capable of binding double stranded	
PT	HIV-1 tata region and activating gene expression of HIV-1TR	
PS	Clalm 2; Fig 1; 75pp; English.	
XX		
CC	This sequence represents TATA modulating factor (TMF). TMF is a	
CC	protein of mol. wt. 123-130 kD which activates transcription in most	
CC	genes, esp. in human immunodeficiency virus-1 (HIV-1) by binding to	
CC	the TATA box region of the promoter. TMF is encoded by the short	
CC	arm of human chromosome 3 in the region p12-p21 which is often	
CC	involved in translocations in patients having lung and other types	
CC	of cancer.	
XX		
Q0	Sequence	1093 AA;

Query Match	7.1%	Score 170	DB 14	Length 1093
Best Local Similarity	20.2%	Pred. No. 2e-05		
Matches 107	Conservative	79	Mismatches 203	Indels 140
				Gaps 17
QY	LAOEENYLDAEFLTNEEDSVKAOQSOKRERKRDSDAIIIDTRDTL---	EERNATVESIQ	122	
Db	1sekedvctveflneklekreaqllslskellleatrdlkkdcmfrkeessstslsk		500	
QY	123 N-----ALNKAEMLC---STLKQMK-----FLRQDERETQAAE	154		
Db	501 deftriseaekkvjackerdakaekelnlkeelatrlnssetadllkkekqrlrglne	560		
QY	155 EAHRLCKMKMTQEOJELLLOSQSEVEEMIRPMGQSAVEQALAVCYSLKREYENLKEA	214		
Db	561 egeklstkqglhmsnlkkrlrakdenemvahl---nkkvkeleeqlqkvlgkvev	617		
QY	215 RKATEELADRLKKDLVSSSKLTINTELDDOKKLELRSAQKLOSDQDITSLRKSDP	274		
Db	618 ekghrenlkklnsmwergedlgtrqvdndleeknrstgaaldsayaekeltolhkanaak	677		
QY	275 PGNLEPASATNETVSRLVFESPAPVEMMPLRHQP-----PFGD-----	313		
Db	678 dsaagaalstrcmkk--eelsaalekqgeearqggetalqvgdrlrlalqrtegaark	735		
QY	314 -----ET-----DLNTTFDVVTPP-----TQTSQSQHCLPKKL---	341		
Db	736 edylrlheigellqrllqeaenrqlsgststlrrllrlglenlqalqsgtstweklekn	795		
QY	342 -----CLERASPMQWLVKLVHVKSPESQSLGGQ---RCGVELDEBLAG	384		
Db	796 lsdrlsgesqlllaaavetateelanklqgmssmesqsnlllrgeustfqaalee---	852		
QY	385 AEPLEIRNAVLGQKQPN-----RTTAESKSSNDVVNRIGFDGCGGRTFIO	429		

Dd		:   :	:   :		
853	-----krrickldeemrygvalenlkdyevrlleetrckellinsqle--memmkveq				904
Qy	430 PRDTIIRPVPVKSKAKSKOKV-----RIKTVSSASOPRLDT-FLCQ	470			
	:   :	:			
Dd	905 erkkaiftgetikerkfsvssstpmrsmsssisgydmagldtsflsq	953			
RESULT	36				
ABG06301					
ID	ABG06301 standard; Protein; 2017 AA.				
AC	ABG06301;				
DT	13-FEB-2002 (first entry)				
DE	Novel human diagnostic protein #6292.				
KW	Human; chromosome mapping; gene mapping; gene therapy; forensic;				
KW	Food supplement; medical imaging; diagnostic; genetic disorder.				
OS	Homo sapiens.				
PX	WO200175067-A2.				
PD	11-OCT-2001.				
PF	30-MAR-2001; 2001MO-US08631.				
PR	31-MAR-2000; 2000US-0540217.				
PR	23-AUG-2000; 2000US-0649167.				
PA	(HYSE-) HYSEQ INC.				
PI	Drmnac RT, Liu C, Tang YT;				
XX	WPI; 2001-639362/73.				
DR	N-PSDB; AAS70488.				
XX					
PT	New isolated polynucleotide and encoded polypeptides, useful in				
PT	diagnostics, forensics, gene mapping, identification of mutations				
PT	responsible for genetic disorders or other traits and to assess				
PT	biodiversity -				
XX					
PS	Claim 20; SEQ ID NO 36660; 103bp; English.				
CC	The invention relates to isolated polynucleotide (I) and				
CC	polypeptide (II) sequences. (I) is useful as hybridisation probes,				
CC	polymerase chain reaction (PCR) primers, oligomers, and for chromosome				
CC	and gene mapping, and in recombinant production of (II). The				
CC	polynucleotides are also used in diagnostics as expressed sequence tags				
CC	for identifying expressed genes. (I) is useful in gene therapy technique				
CC	to restore normal activity of (II) or to treat disease states involving				
CC	(II). (II) is useful for generating antibodies against it, detecting or				
CC	quantitating a polypeptide in tissue, as molecular weight markers and as				
CC	a food supplement. (II) and its binding partners are useful in medical				
CC	imaging of sites expressing (II). (I) and (II) are useful for treating				
CC	diseases involving aberrant protein expression or biological activity.				
CC	The polypeptide and polynucleotide sequences have applications in				
CC	diagnostics, forensics, gene mapping, identification of mutations				
CC	responsible for genetic disorders or other traits to assess biodiversity				
CC	and to produce other types of data and products dependent on DNA and				
CC	amino acid sequences. ABG00010-ABG30377 represent novel human				
CC	diagnostic amino acid sequences of the invention.				
CC	Note: The sequence data for this patent did not appear in the printed				
CC	specification, but was obtained in electronic format directly from WIPO				
CC	at ftp.wipo.int/pub/published_pct_sequences.				
XX					
SQ	Sequence 2017 AA;				

Query Match 7.1%; Score 170; DB 22; Length 2017;  
 Best Local Similarity 22.8%; Pred No. 4; 9e-05;







Db 369 eggnmeamsdrvkatqaeqlsnelatersstaqknesarqqlerqpkelrsklhemea 428  
QY 160 -KCKMK-TMEQIELLQSQSEVEEMIRDMGVQSAVEQLAVYCVSLKKEKENLEAKKA 217  
Db 429 vskfkstlaaleaklqleeqveqaerek---qaatkslkqdkkllkelllqvederk- 484  
QY 218 TGEIADRLKKDLVSSRSKLTNTLTDQAKLELRSQAKDLSADQETTSLRKSDPPGN 277  
Db 485 ---maeqykegaekgnarvqqlkrqleaeae-----sqrinaartrklq---re 527  
QY 278 LEPASATNETVSRVLFESPAVEMNPRLOPP 310  
Db 528 ldeatesneamgr-----evnalksklrgpp 553

RESULT 40  
AAR66929  
ID AAR66929 standard; Protein: 576 AA.  
XX  
AC AAR66929;  
XX  
DT 01-SEP-1995 (first entry)  
XX  
DE AMWL chromosome inv(16) product.  
XX  
KM AMWL; acute myelomonocytic leukemia; chromosome-16; inversion;  
KN inv(16); CBF-beta; CBFb gene; transcription factor; myosin; MYH11;  
SMHC.  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..164 /label= CBFb  
FT Peptide 165..576 /label= MYH11  
XX  
PN MO9504067-A.  
XX  
PD 09-FEB-1995.  
XX  
PF 26-JUL-1994; 94WO-US08530.  
XX  
PR 29-JUL-1993; 93US-0099869.  
XX  
PA (UNMT ) UNIV MICHIGAN.  
PI (TEXA ) UNIV TEXAS SYSTEM.  
XX  
PI Claxton D, Collins FS, Liu P, Siciliano MJ;  
XX  
DR WPI: 1995-082178/11.  
DR N-PSDB: AAQ84588.  
XX  
PT Novel DNA spanning the pericentric inversion of chromosome 16 -  
PT for the screening of acute myeloid leukaemia  
XX  
PS Claim 4; Page 28-30; 78pp; English.  
XX  
CC PCR was performed on total cellular RNA from 5 AMWL patients having  
CC a pericentric inversion of chromosome-16, M4Eo subtype. Sequencing  
CC showed the inv(16) fusion to comprise a sequence from the CBFb  
CC gene, encoding a novel transcription factor, and the MYH11 gene,  
CC encoding smooth muscle myosin heavy chain. In 3 patients, nt 1-492  
CC of the CBFb gene were fused to nt 1921 of MYH11 (shown in  
CC AAQ84588; predicted aa sequence in AAR66929). Probes based on inv(16)  
CC can be used for diagnosis of AMWL.  
XX  
SQ Sequence 576 AA;

QY 65 DLAOEENVLDAEFLKNELDVKAOLSOQ-----DREKRDSOAIIDTLPDPLEE 113  
Db 326 dlmqlgediaaeratrqaqlkekeelaeeiaslsgrnaiqdekrrleariaqleeelee 385  
QY 114 RNMTVESLQNALNK---AEMLC-----STLKQMKFLEORODETKQAREAHRL--- 159  
Db 386 eggnmeamsdrvkatqaeqlsnelatersstaqknesarqqlerqpkelrsklhemea 445  
QY 160 -KCKMK-TMEQIELLQSQSEVEEMIRDMGVQSAVEQLAVYCVSLKKEKENLEAKKA 217  
Db 446 vskfkstlaaleaklqleeqveqaerek---qaatkslkqdkkllkelllqvederk- 501  
QY 218 TGEIADRLKKDLVSSRSKLTNTLTDQAKLELRSQAKDLSADQETTSLRKSDPPGN 277  
Db 502 ---maeqykegaekgnarvqqlkrqleaeae-----sqrinaartrklq---re 544  
QY 278 LEPASATNETVSRVLFESPAVEMNPRLOPP 310  
Db 545 ldeatesneamgr-----evnalksklrgpp 570

Search completed: September 4, 2002, 16:09:06  
Job time: 8130 sec

Query Match 7.0%; Score 168.5; DB 16; Length 576;  
Best Local Similarity 23.8%; Pred. No. 1.1e-05;  
Matches 65; Conservative 54; Mismatches 99; Indels 55; Gaps 10;

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